

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/054832 A1**

(51) International Patent Classification<sup>7</sup>: **G01N 21/85**,  
G21K 1/00

(21) International Application Number:  
PCT/EP2004/053260

(22) International Filing Date: 3 December 2004 (03.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0350972 4 December 2003 (04.12.2003) FR

(71) Applicant (for all designated States except US): **COM-  
MISSARIAT A L'ENERGIE ATOMIQUE** [FR/FR];  
31-33 rue de la Fédération, F-75752 Paris 15ème (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GETIN, Stéphane**  
[FR/FR]; 41, rue des Eaux Claires, F-38100 Grenoble  
(FR). **FUCHS, Alexandra** [FR/FR]; Le Bressot, F-38470  
Beaulieu (FR). **COLAS, Guillaume** [FR/FR]; 2, rue  
Raymond Bank, F-38000 Grenoble (FR). **GAUGIRAN,**  
**Stéphanie** [FR/FR]; 6, rue Vicat, F-38000 Grenoble (FR).

(74) Agent: **POULIN, Gérard**; Brevatome, 3, rue du Docteur  
Lancereaux, F-75008 Paris (FR).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

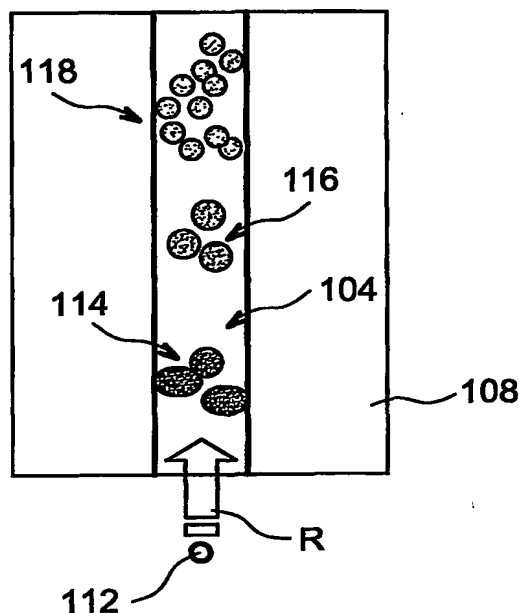
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: PARTICLE SORTING METHOD



(57) Abstract: The present invention relates to a method for  
sorting particles (100), including: - marking of said particles  
in order to modify their optical index, - placement of the said  
particles on a waveguide (104) of a support (108), - injection of  
light radiation into the said waveguide, injection causing dis-  
placement of particles on the said waveguide and separation of  
the particles.

WO 2005/054832 A1